Jason Stamp

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EDUCATION and TRAINING

1998: Clemson University – Doctor of Philosophy in Electrical Engineering

1995: Rose-Hulman Institute of Technology – Bachelor of Science in Electrical Engineering

PROFESSIONAL EXPERIENCE

2012-Present: Distinguished Member of the Technical Staff – Sandia National Laboratories 2007-2012: Principal Member of the Technical Staff – Sandia National Laboratories 1999-2007: Senior Member of the Technical Staff – Sandia National Laboratories

- Energy surety and microgrids
 - o Lead Design Engineer for the DOE/DoD SPIDERS microgrid project (2010-present)
 - o Microgrid design for military facilities (2008-present)
- Cyber security of automation and control systems in electric power
 - Threat analysis for infrastructure systems (2004-present)
 - o Cyber security modeling and design for automation and control systems (2003-present)
 - o Consequences from malevolent action against electrical grid control (1999-present)
 - o SNL National SCADA Test Bed (NSTB) technical lead (2006-2007)
 - o Open PCS Security Architecture for Interoperable Design (OPSAID) lead (2006-2007)
 - o I3P PCS Security Project, Risk Analysis leader (2005-2007)
- Security assessments
 - o Natural gas and liquid pipelines (2006-2008)
 - o Petroleum refineries (2003, 2005-2006)
 - o Nuclear power facilities (2003-2004)
 - o Regional electric generation and transmission utilities (2002)
 - o Municipal water utilities (2001-2002)
 - o Hydroelectric dams (1999-2003)
 - o Petroleum storage (1999)
- Consequence analysis for national security impacts from electric power
 - o Risk Assessment Methodology for Water Utilities, RAM-WSM (2001-2002)
 - o Risk Assessment Methodology for Electric Transmission, RAM-TSM (1999-2000)
 - o Risk Assessment Methodology for Dams, RAM-DSM (1999-2000)

RELEVANT SELECTED PUBLICATIONS

Jason Stamp, Jennifer Stinebaugh, Richard Jensen, et al., "SPIDERS Project: Fort Carson Preliminary Design Summary," (SAND2012-4324) Sandia National Laboratories, Albuquerque, NM, March 2012.

Jason Stamp, Jennifer Stinebaugh, Karina Munoz-Ramos, et al., "SPIDERS Project: Hickam AFB Preliminary Design Summary," (SAND2012-1646) Sandia National Laboratories, Albuquerque, NM, June 2011.

Jason Stamp, Vince Urias, and Bryan Richardson, "Cyber Security Analysis for the Power Grid Using the Virtual Control Systems Environment," IEEE PES General Meeting (GM): Detroit, Michigan, July 2011.

Jason Stamp, Karina Munoz-Ramos, et al., "Initial Phase of Energy Surety Microgrid Analysis for Camp H. M. Smith (Hawaii)," (SAND2010-6812) Sandia National Laboratories, Albuquerque, NM, October 2010.

Jason Stamp, Judith Gardiner, and Randall LaViolette, "Final Report: Impacts Analysis for Cyber Attack on Electric Power Systems (National SCADA Test Bed FY09)," Sandia National Laboratories (SAND2009-5569), Albuquerque, New Mexico (2009).

Jason Stamp, Annie McIntyre, and Bryan Richardson, "Reliability Impacts from Cyber Attack on Electric Power Systems," IEEE PES Power Systems Conference & Exhibition (PSCE): Seattle, Washington, 15-18 March 2009.

Jason Stamp, Randall Laviolette, Laurie Phillips, and Bryan Richardson, "Final Report: Impacts Analysis for Cyber Attack on Electric Power Systems (National SCADA Test Bed FY08)," Sandia National Laboratories report SAND2009-1673: Albuquerque, New Mexico (2009).

Steven Hurd, Jason Stamp, et al., "Applying New Network Technologies to SCADA Systems," (SAND2006-7422) Sandia National Laboratories, Albuquerque, NM, November 2006.

Annie McIntyre, Jason Stamp, Ben Cook, and Andrew Lanzone, "Workshops Identify Threats to Process Control Systems," Oil and Gas Journal, October 2006.

Jason Stamp, Michael Berg, et al., "Fundamental Security Practices for Control and Automation Systems in Electric Power," Prepared for the U.S. Department of Energy Office of Electricity Delivery and Energy Reliability and the National SCADA Test Bed program; Washington, D.C., October 2005.

U.S.-Canada Power System Outage Task Force, Final Report on the August 14, 2003 Blackout in the United States and Canada: Causes and Recommendations, U.S. Departments of Energy and Homeland Security: Washington, D.C., April 2004. Available at https://reports.energy.gov

Jason Stamp, John Dillinger, William Young, and Jennifer DePoy, "Common Vulnerabilities in Critical Infrastructure Control Systems," SANS National Infrastructure Assurance Leadership Conference: Washington, D.C., July 2003. Also available as Sandia National Laboratories report SAND2003-1772C: Albuquerque, New Mexico, November 2003.

Naval Research Advisory Committee, Roadmap to an Electric Naval Force, Office of the Assistant Secretary of the Navy (Research, Development, and Acquisition), U.S. Department of Defense: Washington, D.C., July 2002.

SYNERGISTIC ACTIVITIES

- Member, Task Force on Cyber Security of Power Systems for the Subcommittee of Computer and Analytical Methods in the Technical Committee on Power System Analysis, Computing and Economics for IEEE PES (2008-present).
- Chair, Lifelong Learning Subcommittee (LLLSC) of the Power Engineering Education Committee (PEEC) in the IEEE PES (2009-2011).
- Vice-Chair, LLLSC PEEC of IEEE PES (2007-2009).
- Secretary, LLLSC PEEC of IEEE PES (2005-2007).
- Security Working Group (SWG) of the U.S.-Canada Power System Outage Task Force (for the 2003 blackout), specifically the SWG Policies and Procedures subgroup (2003-2004)
- "Roadmap to an Electric Naval Force" panel of the Naval Research Advisory Committee (NRAC) from (2001-2002)